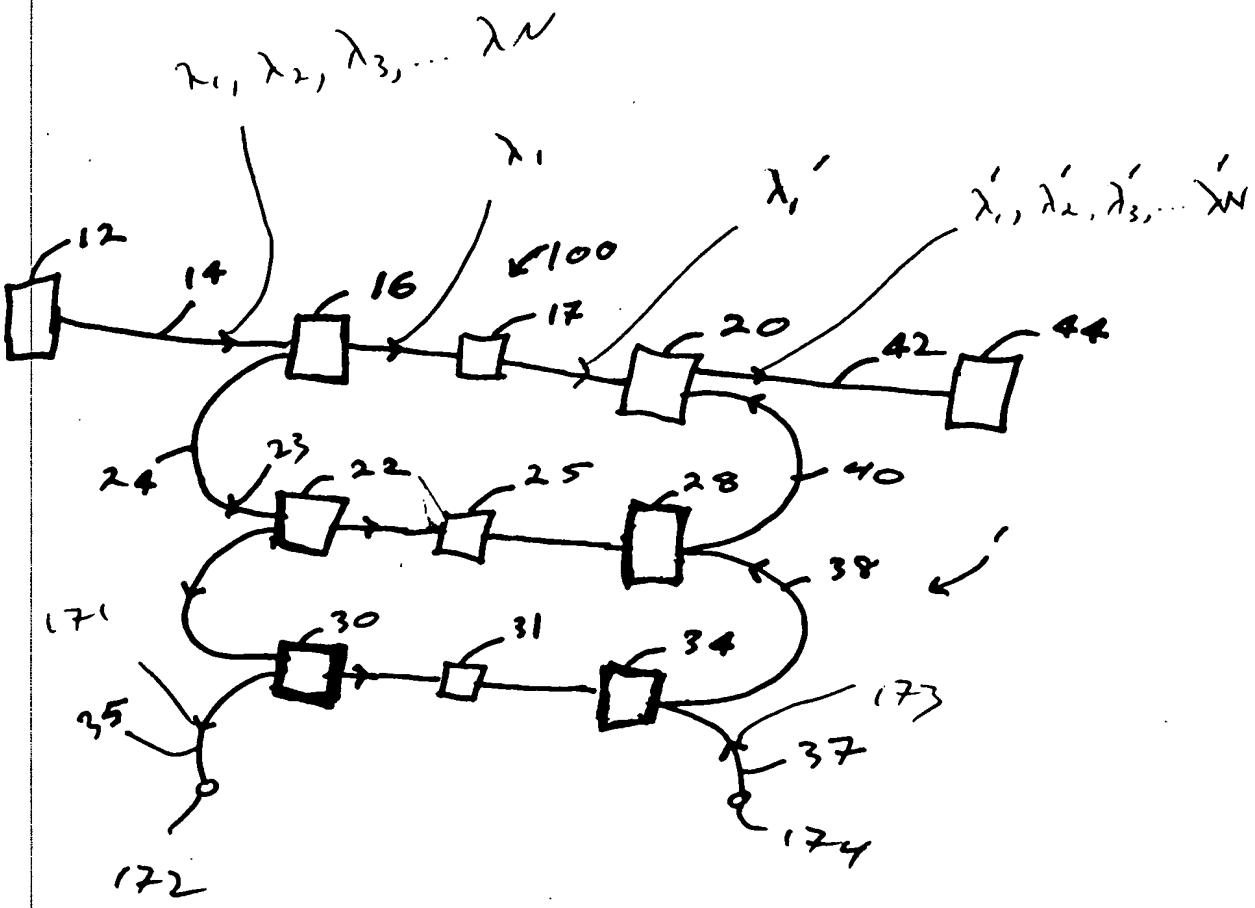
λ1, λ2, λ3, ... λN
λ1
λ1'
λ1', λ2', λ3', ... λN'
12
14
16
17
100
20
42
44
24
23
22
25
28
40
38
171
30
31
34
173
35
37
172
174

FIG. 1A.

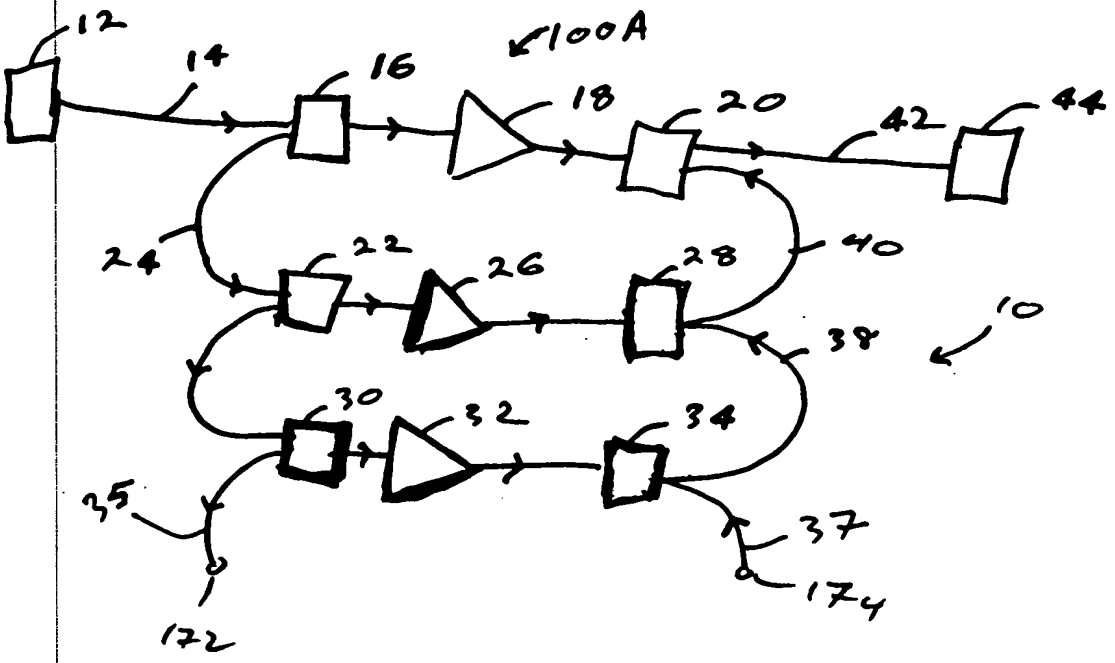
12
14
16
100A
18
20
42
44
24
22
26
28
40
10
38
30
32
34
35
37
172
174

FIG. 1B.

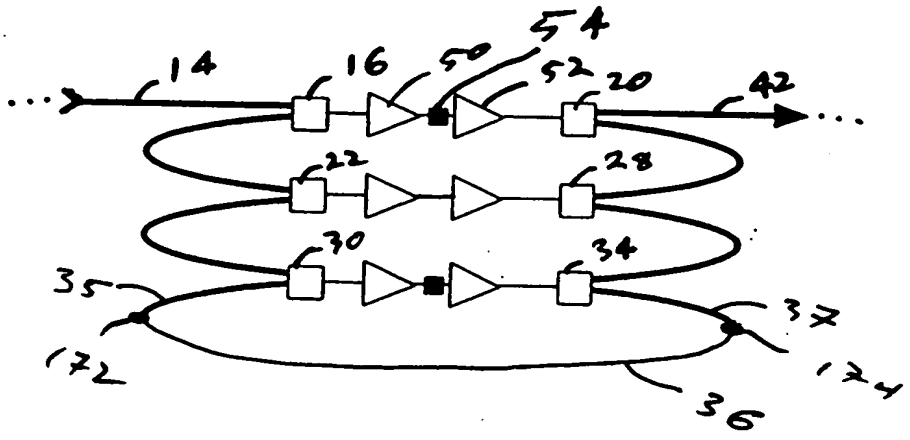
54
14
16
50
52
20
42
22
28
30
34
35
37
172
174
36

FIG. 1C.

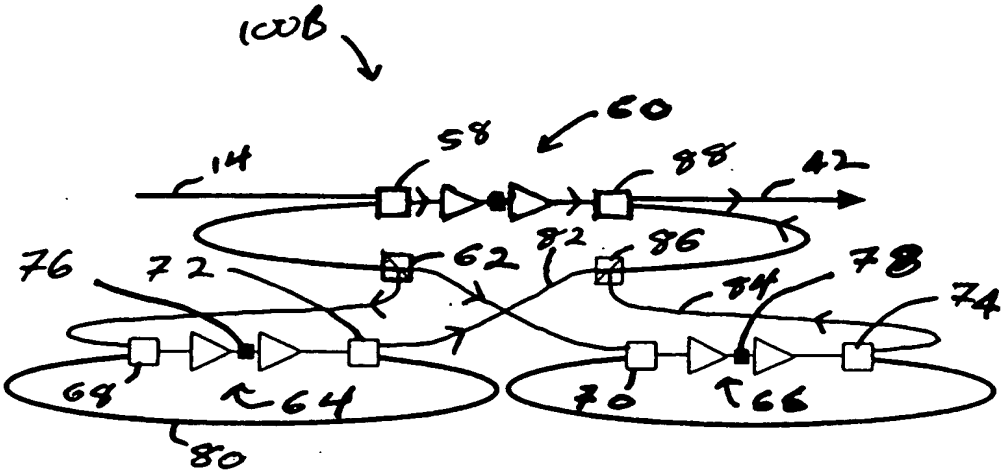
100B
60
58
14
88
42
76
72
62
82
86
78
84
74
68
64
70
66
80

FIG. 2A

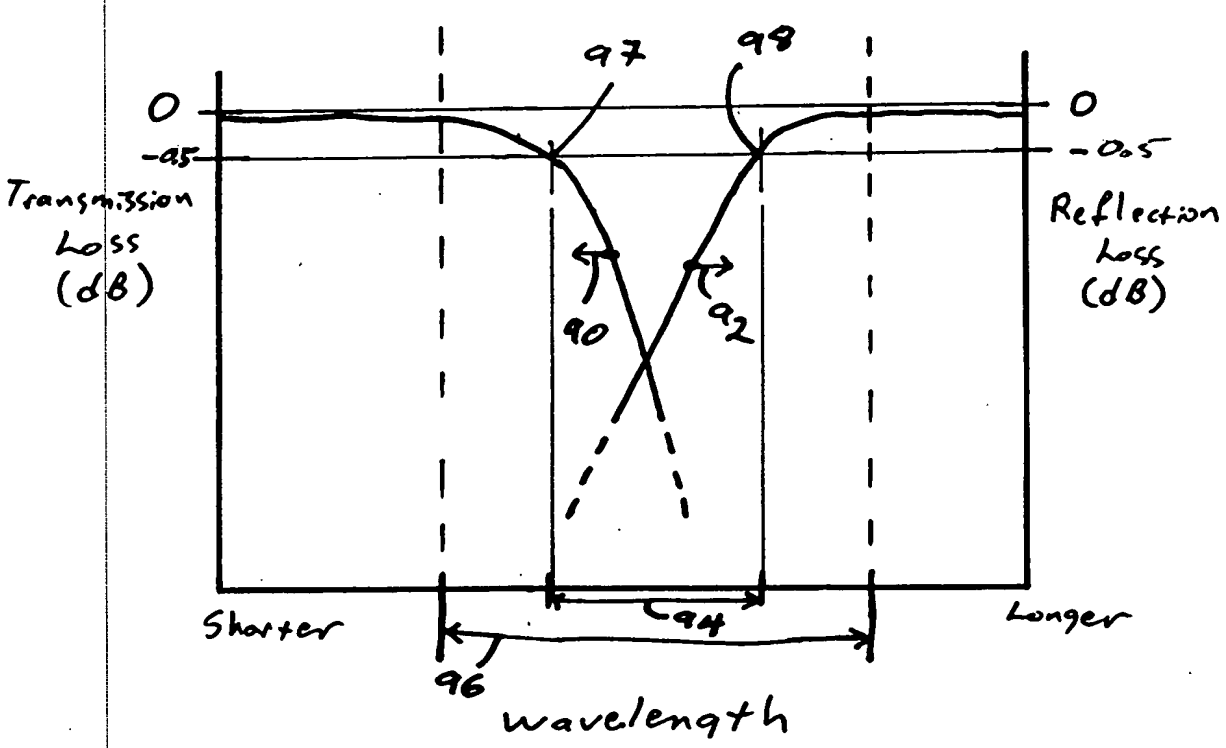
97
98
0
-.05
0
-.05
Transmission Loss (dB)
Reflection Loss (dB)
90
92
94
96
Shorter
Longer
wavelength

FIG. 2B.

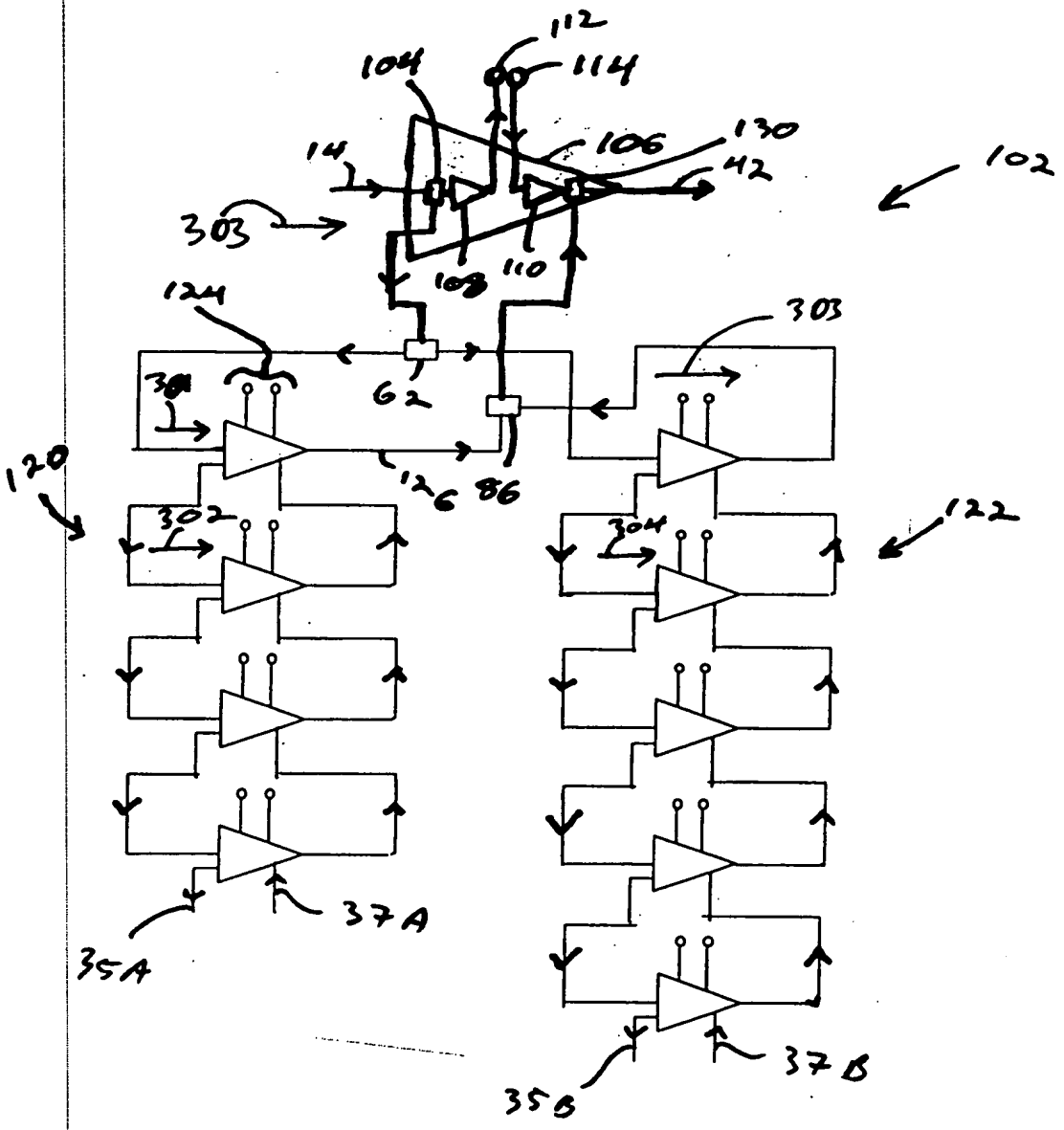
112
114
104
106
130
14
42
102
303
108
110
124
303
G2
120
126
86
302
304
122
37A
35A
37B
35B

FIG. 3A.

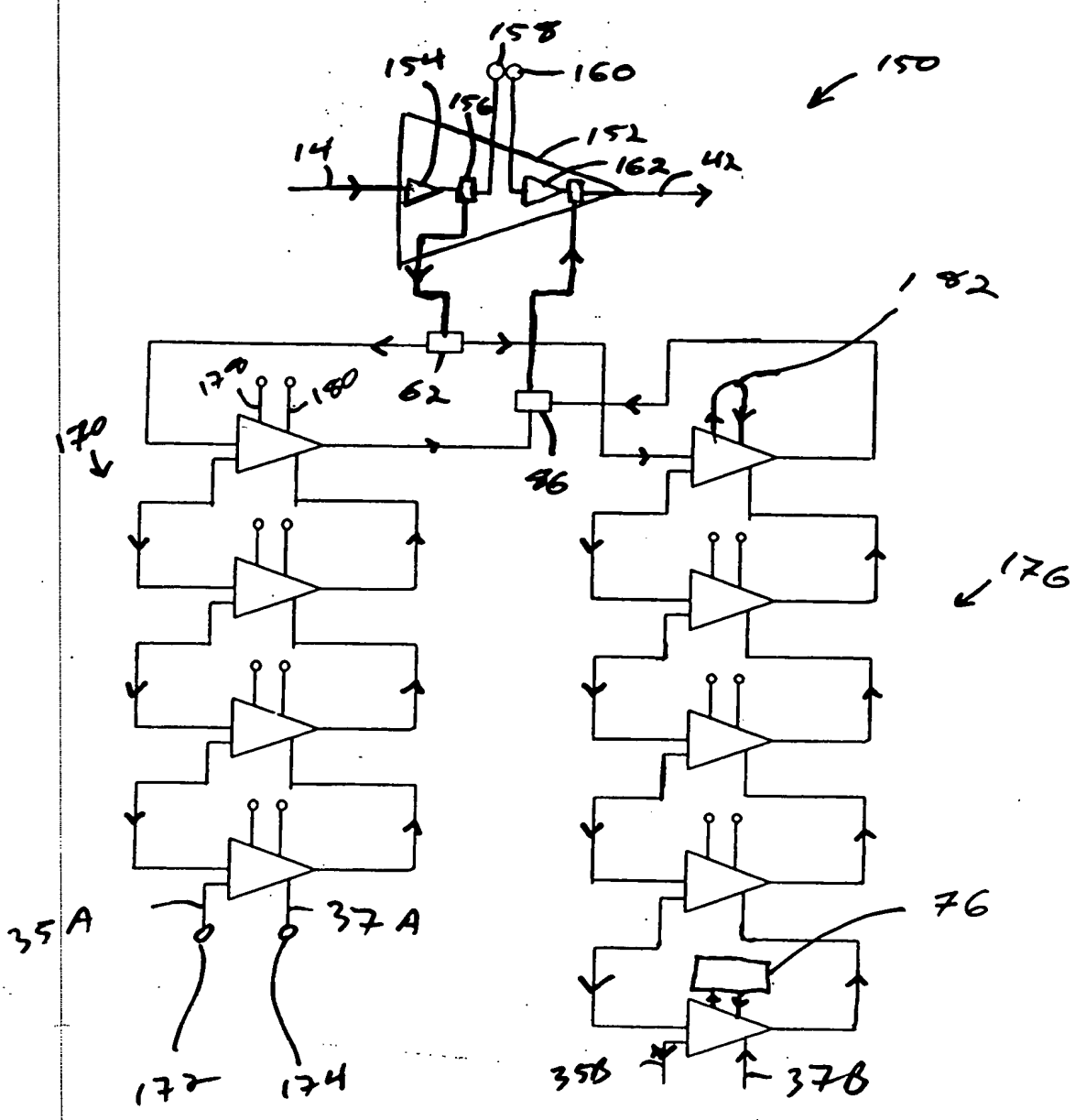
158
154
160
150
156
152
14
162
42
182
178
180
62
170
86
176
76
35A
37A
172
174
35B
37B

FIG. 3B.

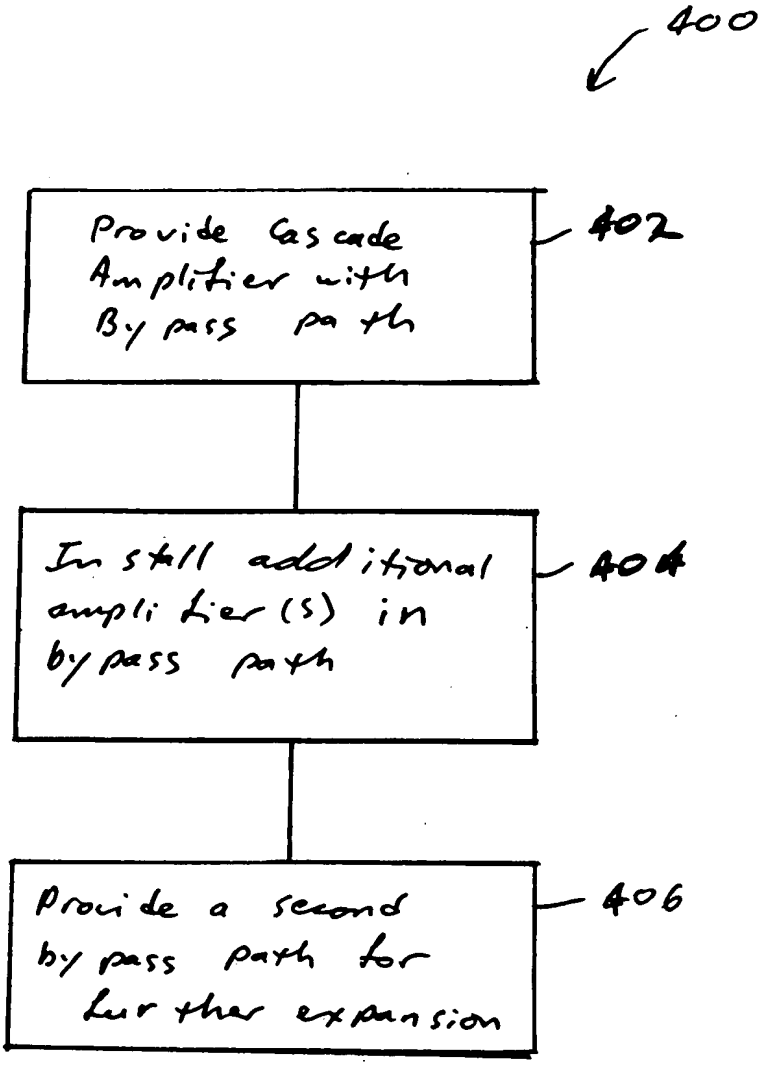
400
Provide Cascade Amplifier with Bypass path
402
Install additional amplifier(s) in bypass path
404
Provide a second bypass path for further expansion
406

FIG. 4.

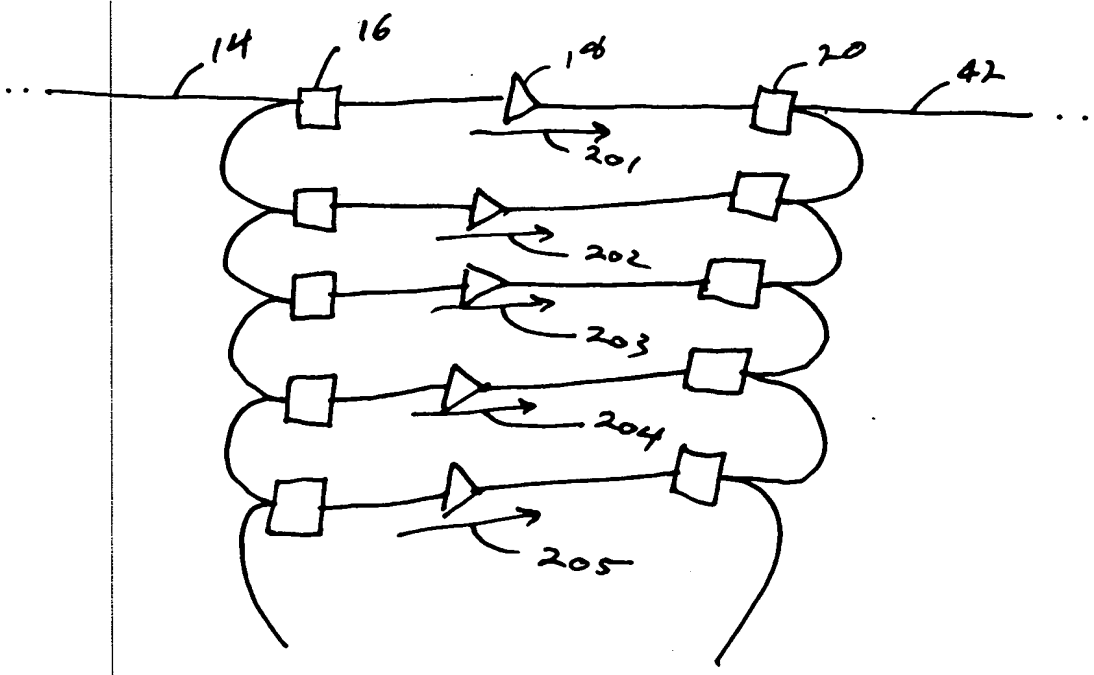

FIG. 5.

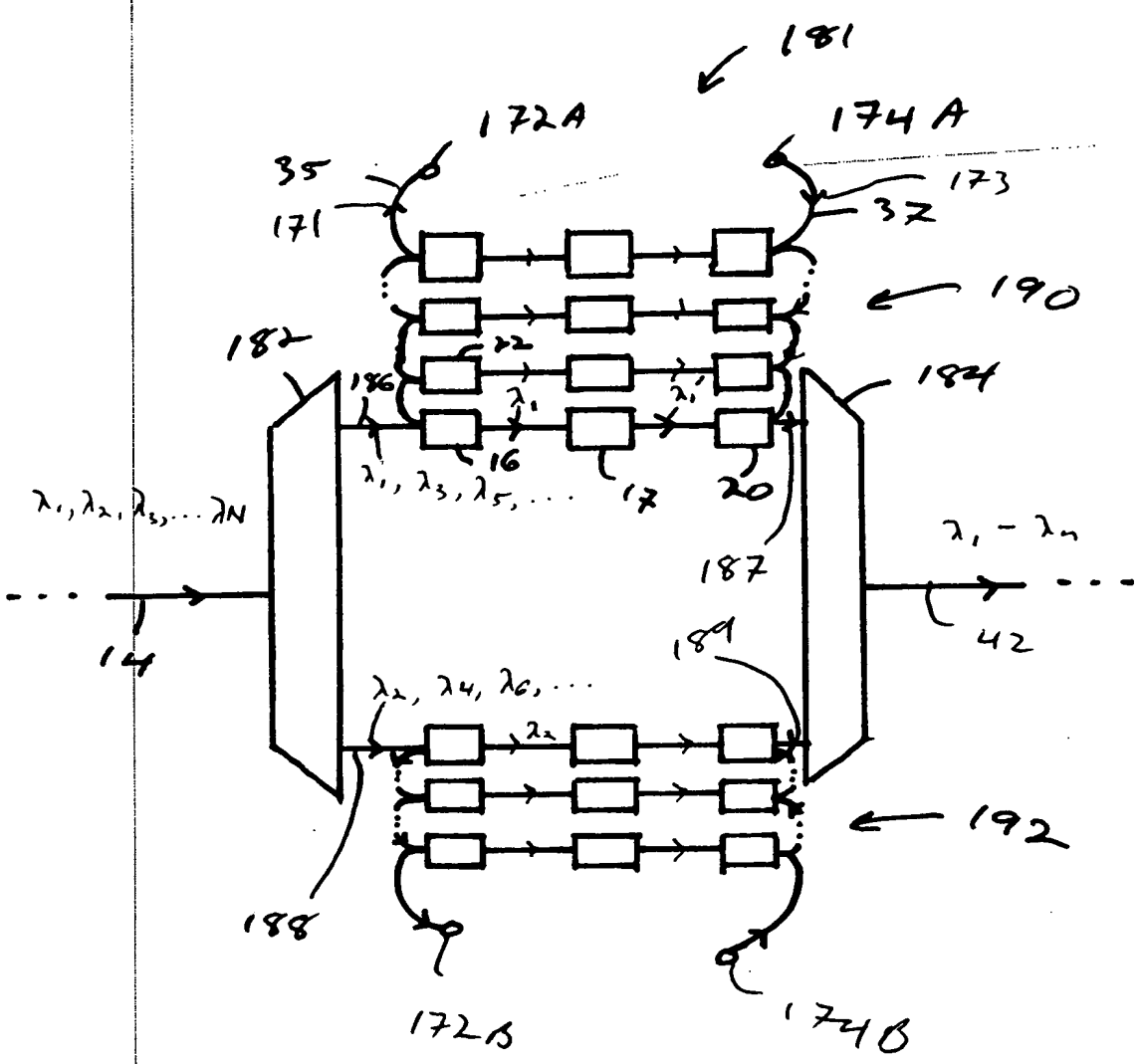
181
172A
174A
35
171
173
32
190
182
184
186
λ_2
λ_1
λ_1
16
17
20
$\lambda_1, \lambda_2, \lambda_3, \ldots \lambda N$
$\lambda_1, \lambda_3, \lambda_5, \ldots$
187
$\lambda_1 - \lambda_n$
14
42
189
$\lambda_2, \lambda_4, \lambda_6, \ldots$
λ_2
192
188
172B
174B

FIG. 6.